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## Solid Waste Management Program

### Construction Schedule at Bridgeton Sanitary Landfill

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Updated March 23, 2013

The community has grown up around the landfill. Bridgeton Sanitary Landfill sits in a uniquely urban environment adjacent to an international airport and surrounded by the interstate highway system and includes both residential subdivisions and commercial properties. The department has been working with Republic Services to implement alternatives that take into consideration what is less disruptive to residences and businesses surrounding the landfill. As Republic Services implements these alternatives, they have provided the following construction schedule.

**NEW** **High Odor Advisory - March 23, 2013** -- Odors are elevated this morning as work is completed on Gas Extraction Well, GEW64A. Work planned for next week may be delayed dependent on weather conditions as snow is in the forecast.

#### Upcoming Construction

**Gas Extraction Wells** - Through approx. March 31, 2013 (weather dependent) - Fourteen gas extraction wells have been drilled with 12 additional gas extraction wells remaining to be drilled. The wells will be operated to decrease the amount of landfill gas and associated odors escaping to the atmosphere.

**Temperature Monitoring Probes** - Through approx. April 12, 2013 (weather dependent) - Six additional temperature monitoring probes are being drilled and installed to monitor temperatures within the waste mass within the neck between the south and north quarries.

**Reinforced Concrete Pipes (leachate collection wells)** - These reinforced concrete pipes have contributed to additional odors at the facility. Weather dependent, work on these reinforced concrete pipes may begin as soon as the week of March 25 and continue through April 20, 2013. Republic Services has indicated while work is being completed on the reinforced concrete pipes odors will increase significantly. This is a step in preparation for the capping of the south quarry. The department's contractor will be conducting air sampling during these activities.

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**March 21, 2013** -- During the drilling of Gas Extraction Well 88, elevated odors have resulted as a pocket of landfill gas and steam was encountered. The department's AreaRae equipment continues to collect data related to odors.

**March 15, 2013** - During drilling of gas extraction well, or GEW 71B, elevated odors have resulted as a pocket of landfill gas and steam was encountered during the drilling operation. The department's AreaRae equipment continues to collect data related to odors.

**March 11, 2013** - During the drilling of gas extraction well, or GEW 58, elevated odors resulted when a pocket of landfill gas and steam was encountered during the drilling operation. The department's AreaRae air monitoring equipment is continuing to collect data related to odors.

**Feb. 15, 2013** - During installation of a gas extraction well, significant odors were created resulting in several odor concerns. As a result, the department collected air samples that evening. Analysis is provided on the Air Sampling page.

**Interceptor Plan** - Beginning the week of Jan. 21, 2013 and continuing until approx. March 8, 2013 (weather dependent) - To minimize movement of subsurface heat and further address odors, enhanced interceptor gas wells are being installed. The interceptor plan creates a low pressure area vacuum curtain or "wall" that will allow landfill gas to be controlled, so it can be safely destructed in the current landfill gas collection and control system to reduce heat from the subsurface smoldering event. View the Solid Waste Management Program's approval letter for the interceptor plan. In response to the department's request, Bridgeton/Republic has expanded the interceptor and temperature monitoring probe plan.

### **Leachate Line and Leachate Collection Wells**

**Jan. 14, 2013** - Bridgeton/Republic reported a leachate line had broken resulting in an immediate increase in odors and associated complaints. Parts to repair the broken section of line took nearly one and one half weeks to obtain and for the complete repair to occur. This broken line resulted in an immediate increase in odors and associated complaints. The line has been repaired.

**Feb. 2, 2013** - A leachate release was discovered resulting from a pipe becoming disconnected from the landfill's leachate collection system. Republic landfill staff immediately constructed a soil barrier in the storm water ditch to keep the release on landfill property, cleaned up the release and conducted soil sampling to ensure the cleanup was completed. Leachate samples were collected by department staff and by Republic's contractor for analysis to determine if further action is necessary.

**Ongoing** - Bridgeton/Republic began shipping a portion of the leachate generated at the facility to an off-site service provider for management due to a compliance order from the Metropolitan Sewer District. On Jan. 24, 2013, their off-site service provider notified Bridgeton/Republic the leachate shipments had been determined to exceed the limit for benzene. Bridgeton/Republic is enhancing pretreatment of the leachate to eventually meet Metropolitan Sewer District discharge standards. Until such time, off-site disposal of leachate has resulted in an increase in heavy truck traffic around the landfill property.

**Soil, Flexible Membrane Liner and Synthetic Cap System - Ongoing - Bridgeton/Republic** continues to add soil and black flexible membrane liner to the cap on an as needed basis to assist in limiting odors and to ensure effective stormwater drainage. By March 25, 2013, Bridgeton/Republic will be submitting to the department a plan to install a synthetic cap system over the entire South Quarry to address odors. Odors are expected to increase during this construction activity and are expected to diminish after completion. When an exact date for construction on the synthetic cap system is known, the date will be provided here.

**Operation, Monitoring and Maintenance Plan - Bridgeton/Republic** is finalizing an operation, monitoring and maintenance plan for Bridgeton to ensure all engineering controls such as gas extraction wells, leachate drains, pumps, temporary liner, flares and the landfill cap will continue to control leachate, gas and odors generated by the reaction/fire. The plan will remain in place until the reaction/fire has run its course and the entire impacted area may have a final cap put into place.



**Note:** The operation, monitoring and maintenance plan submitted by Bridgeton/Republic will be made available on this webpage, when it is in final form.